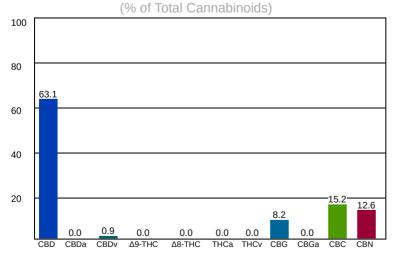


CERTIFICATE OF ANALYSIS

Order Type: CBD Order ID: OR2019-910	Customer ID: 32 Customer Name: CBD Plus USA	Harvest/Extract Lot: None Harvest/Extract Batch: None
Cultivar (Strain): GSC + CRD 5018 Sample Date: 04/02/2019	Lab ID: SA2019-3128 Date Received: 04/02/2019	Sample Matrix: Concentrate Date Completed: 04/05/2019
	Remarks:	
	CANNABINOID (POTENCY) PROFILE	
Analysis Date/Time: 04/02/2019 2326 Analyst: OL	Method: HPLC/DAD (Internal Method-00 Instrument: Agilent 1100	1) Moisture Content (%): - Water Activity (aw): -

Cannabinoid	Result	Result	Reporting Limit	Per Unit	
	<u>(%)</u>	(mg/g)	<u>(mg/g)</u>	<u>(mg)</u>	
CBD	40.3	403	0.232	403	
CBDa	-	-	0.232	-	
CBDv	0.59	5.9	0.232	5.9	
$\Delta 9$ -THC	-	-	0.232	-	
$\Delta 8$ -THC	-	-	0.232	-	
THCa	-	-	0.232	-	
THCv	-	-	0.232	-	
CBC	9.73	97.3	0.232	97.3	
CBG	5.21	52.1	0.232	52.1	
CBGa	-	-	0.232	-	
CBN	8.05	80.5	0.232	80.5	
TOTAL	63.9	639		639	
TOTAL THC	-	-		-	
TOTAL CBD	40.3	403		403	

Cannabinoid Distribution



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The statements and results herein have not been approved and/or endorsed by the FDA.

Aurilia State Canadia Harris S

UNIT MASS (g): 1

"-" Not detected above RL.

Deviations from standard operating procedure: None

Recoveries for all analyte standards: 90-110% Replicate Uncertainties: <5% RSD, <20% RPD Sample/Reagent Blanks: <RL for all analytes

Values for plant matter are adjusted for moisture content.

Total THC = (THCa x 0.877) + Δ 9-THC Total CBD = (CBDa x 0.877) + CBD

Percentage results are reported by mass. mg/g results are reported as mass component per mass material.

Abbreviations: UV - Ultraviolet, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD -Relative Percent Difference, RSD - Relative Standard Deviation

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CERTIFICATE OF ANALYSIS

Order Type: CBD	Customer ID: 32	Harvest/Extract Lot: None
Order ID: OR2019-910	Customer Name: CBD Plus USA	Harvest/Extract Batch: None
Cultivar (Strain): GSC + CRD 5018 Sample Date: 04/02/2019	Lab ID: SA2019-3128 Date Received: 04/02/2019	Sample Matrix: Concentrate Date Completed: 04/05/2019

Remarks:

TERPENOID PROFILE

Analysis Date/Time: 04/02/2019 2326 **Analyst:** OL Method: HS/GC/FID (Internal Method-002) Instrument: Agilent 6890 **Deviations from SOP:** None

	<u>Result</u> (μg/g)	<u>Distribution</u> (%, total terpenes)	
olol	-	-	
nene	41	0.221	
arene	374	2	^{3A} 2019-3128, GSC + CRD ⁹¹³
ryophyllene	757	4.06	* Nersbudgy, Peticide, parent and Solveres, Terpert
/ophyllene le	-	-	
ymene	-	-	1 Marian
calyptol	-	-	
raniol	-	-	
aiol	-	-	<i>Abbreviations:</i> HS - Headspace, GC - Gas Chromatography, MS - Mass
Humulene	153	0.822	Spectrometry, RL - Reporting Limit
pulegol	-	-	This information is provided as a service and makes no claims of efficacy
Limonene	4125	22.1	and/or safety of this product.
nalool	1361	7.29	Results are applicable only for the sample(s) analyzed and for the specific
Mycene	5273	28.2	analysis conducted.
s-Nerolidol	-	-	This report is for informational
ans-Nerolidol	-	-	purposes only and should not be used to diagnose, treat, or prevent any
Ocimene	2191	11.7	medical-related symptoms.
Ocimene	14	0.0729	The statements and results herein have not been approved and/or endorsed by
Pinene	2868	15.4	the FDA.
Pinene	56	0.302	
Terpinene	-	-	
Terpinene	21	0.113	
rpinolene	1435	7.69	"-" Not detected above RL.
DTAL	18669	100	Reporting Limit (µg/g)





CERTIFICATE OF ANALYSIS

Order Type: CBD Order ID: OR2019-910

Analyst: OL

Cultivar (Strain): GSC + CRD 5018 **Sample Date:** 04/02/2019

Analysis Date/Time: 04/02/2019 2326

Customer ID: 32 Customer Name: CBD Plus USA

Lab ID: SA2019-3128 Date Received: 04/02/2019 Remarks:

RESIDUAL SOLVENT PROFILE

Method: USP <467> Instrument: Agilent 6890 Harvest/Extract Lot: None Harvest/Extract Batch: None

Sample Matrix: Concentrate Date Completed: 04/05/2019

Deviations from SOP: None

<u>Solvent</u>	<u>Result</u> (µg/g)	<u>Action Level (µg/g)</u>	Solvent	<u>Result</u> (µg/g)	<u>Action Level</u> <u>(µg/g)</u>	
Acetone (67-64-1)	-	5000	n-Heptane (142-82-5)	-	5000	
Acetonitrile (75-5-8)	-	410	n-Hexane (110-54-3)	-	290	
Benzene (71-43-2)	-	2	Isobutane (75-28-5)	-	5000	112115-3128 , GSC + CRD Stil
n-Butane (106-97-2)	-	5000	Isopropanol (67-63-0)	-	5000	Salvests, Terpanti
1-Butanol (71-36-3)	-	5000	Isopropyl acetate (108-21-4)	-	5000	
2-Butanol (78-92-2)	-	5000	Isopropyl benzene (98-82-8)	-	70	· /·
2-Butanone (78-93-3)	-	5000	Methanol (67-56-1)	-	3000	
Cyclohexane (110-82-7)	-	3880	2-Methylbutane (78-78-4)	-	5000	Color Key
1,2-Dimethoxyethane (110-71-4)	-	100	Methylene chloride (75-9-2)	-	600	RESULT < 1/2 AL
N,N-Dimethylacetamide (127-19-5)	-	1090	2-Methylpentane (107-83-5)	-	290	
2,2-Dimethylbutane (75-83-2)	-	290	3-Methylpentane (96-10-0)	-	290	1/2 AL < RESULT < AL
2,3-Dimethylbutane (79-29-8)	-	290	n-Pentane (109-66-0)	-	5000	RESULT > AL
N,N-Dimethylformamide (68-12-2)	-	880	1-Pentanol (71-41-0)	-	5000	Reporting Limit (µg/g)
Dimethylsulfoxide (67-68-5)	-	5000	n-Propane (74-98-6)	-	5000	1/2 of AL
1,4-Dioxane (123-91-1)	-	380	1-Propanol (71-23-8)	-	5000	"-" not detected above
Ethanol (64-17-5)	-	5000	Pyridine (110-86-1)	-	200	reporting limit
2-Ethoxyethanol (110-80-5)	-	160	Tetrahydrofuran (109-99-9)	-	720	
Ethyl ether (60-29-7)	-	5000	Tetramethylene sulfone (126-33-0)	-	160	"*" - o,m,p-Xylene and
Ethyl acetate (141-78-6)	-	5000	Toluene (108-88-3)	-	890	Ethylbenzene
Ethyl benzene (100-41-4)	-	217	o-Xylene (95-47-6)	-	2170	
Ethylene glycol (107-21-1)	-	620	m,p-Xylene (108-38-3 or 106-42-3)	-	2170	
Ethylene oxide (75-21-8)	-	50	Xylenes* (1330-20-7)	-	2170	

Solvent	<u>Synonym(s)</u>	<u>Solvent</u>	<u>Synonym(s)</u>	Solvent	<u>Synonym(s)</u>
Acetonitrile	Methyl Cyanide, ACN	2-Ethoxyethanol	Cellosolve, Ethyl glycol	Methanol	Methyl alcohol
1-Butanol	n-Butanol, Butyl	Ethyl ether	Diethyl ether, Ether	2-Methylbutane	Isopentane
1-Butanoi	Alcohol	Ethyl acetate	EtOAc	Methylene chloride	Dichloromethane
2-Butanol	sec-Butyl alcohol	Ethyl benzene	Phenylethane	2-Methylpentane	Isohexane
2-Butanone	Methyl ethyl ketone,	Ethylene glycol	1,2-Ethanediol	1-Pentanol	n-Amyl alcohol
2 Datallolic MEK		Ethylene oxide	Oxirane	1-Propanol	Propyl alcohol
1,2-Dimethoxyethane	Monoglyme	Isobutane	2-Methylpropane	Tetrahydrofuran	THF
2,3-Dimethylbutane	Neohexane		5 1 1	5	
2,3-Dimethylbutane	Diisopropyl	Isopropanol	2-Propanol, IPA	Tetramethylene sulfone	Sulfolane
N,N-Dimethylformamide	DMF	Isopropyl Acetate	Acetic acid isopropyl ester	Xylene	Dimethylbenzene
Dimethysufoxide	DMSO				

Abbreviations: HS-Headspace, GC-Gas Chromatography, MS-Mass Spectrometry, RL-Reporting Limit, AL-Action Level CAS-Chemical Abstract Services

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CERTIFICATE OF ANALYSIS

Order Type: CBD Order ID: OR2019-910

Cultivar (Strain): GSC + CRD 5018 Sample Date: 04/02/2019

Customer ID: 32 Customer Name: CBD Plus USA

Lab ID: SA2019-3128 Date Received: 04/02/2019 **Remarks:**

PESTICIDES PROFILE

Method: LC/MS/MS and GC/MS

Harvest/Extract Lot: None Harvest/Extract Batch: None

Sample Matrix: Concentrate Date Completed: 04/05/2019

Analysis Date/Time: 04/02/2019 2326 Analyst: OL

Instrument: Waters Acquity/TQD

Deviations	from SOP:
None	

Pesticide	<u>Result</u> (µg/g)	<u>Action Level</u> (μg/g)	Pesticide	<u>Result</u> (µg/g)	<u>Action Level</u> (μg/g)	
Abamectin (71751-41-2)	-	0.5	Imazalil (35554-44-0)	-	0.2	V
Acephate (30560-19-1)	-	0.4	Imidacloprid (138261-41-3)	-	0.4	Lizerasize, csc + cno str
Acequinocyl (57960-19-7)	-	2	Kresoxim-methyl* (143390-89-0)	-	0.4	Showing Dearers
Acetamiprid (135410-20-7)	-	0.2	Malathion (121-75-5)	-	0.2	
Aldicarb (116-06-3)	-	0.4	Metalaxyl* (57837-19-1)	-	0.2	
Azoxystrobin (131860-33-8)	-	0.2	Methiocarb (2032-65-7)	-	0.2	Color Key
Bifenazate* (149877-41-8)	-	0.2	Methomyl (16752-77-5)	-	0.4	
Bifenthrin* (82657-04-3)	-	0.2	Methyl parathion* (298-0-0)	-	0.2	RESULT < 1/2 AL
Boscalid* (188425-85-6)	-	0.4	MGK 264* (113-48-4)	-	0.2	1/2 AL < RESULT < AL
Carbaryl (63-25-2)	-	0.2	Myclobutanil (88671-89-0)	-	0.2	RESULT > AL
Carbofuran (1563-66-2)	-	0.2	Naled (300-76-5)	-	0.5	Reporting Limit (µg/g)
Chlorantraniliprole (800008-45-7)	-	0.2	Oxamyl (23135-22-0)	-	1	1/2 of AL
Chlorfenapyr* (122453-73-0)	-	1	Paclobutrazol* (76738-62-0)	-	0.4	
Chlorpyrifos* (2921-88-2)	-	0.2	Permethrins* (52645-53-1)	-	0.2	"-" not detected above reporting limit
Clofentezine (74115-24-5)	-	0.2	Phosmet* (732-11-6)	-	0.2	reporting innit
Cyfluthrin* (68359-37-5)	-	1	Piperonyl butoxide* (51-03-6)	-	2	"*" analyzed by GC/MS
Cypermethrin* (52315-07-8)	-	1	Prallethrins* (2331-36-9)	-	0.2	(all others analyzed
Daminozide (1596-84-5)	-	1	Propiconazole (60207-90-1))	-	0.4	by LC/MS/MS)
DDVP (62-73-7)	-	0.1	Propoxur* (114-26-1)	-	0.2	Permethrins neasured as
Diazinon* (333-41-5)	-	0.2	Pyrethrins* (8003-34-7)	-	1	the cumulative residue of
Dimethoate (60-51-5)	-	0.2	Pyridaben* (96489-71-3)	-	0.2	the <i>cis</i> - and <i>trans</i> -
Ethoprophos* (13194-48-4)	-	0.2	Spinosad A (168316-95-8)	-	0.2	permethrin isomers.
Etofenprox (80844-07-1)	-	0.4	Spinosad D (168316-95-8)	-	0.2	Pyrethrin measures as the
Etoxazole (153233-91-1)	-	0.2	Spiromesifen (283594-90-1)	-	0.2	cumulative residue of
Fenoxycarb (72490-01-8)	-	0.2	Spirotetramat (203313-25-1)	-	0.2	pyrethrin I, cinerin I, and
(E)-Fenpyroximate (134098-61-6)	-	0.4	Spiroxamine (118134-30-8)	-	0.4	jasmolin I.
Fipronil* (120068-37-3)	-	0.4	Tebuconazole (80443-41-0)	-	0.4	
Flonicamid (158062-67-0)	-	1	Thiacloprid (111988-49-9)	-	0.2	
Fludioxinil (131341-86-1)	-	0.4	Thiamethoxam (153719-23-4)	-	0.2	
Hexythiazox (78587-05-0)	-	1	Trifloxystrobin* (141517-21-7)	-	0.2	

Abbreviations: LC - Liquid Chromatography, GC - Gas Chromatography, MS - Mass Spectrometry, RK - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services

Pesticide	<u>Synonym(s)</u>	Pesticide	<u>Synonym(s)</u>	Pesticide	<u>Synonym(s)</u>
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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CERTIFICATE OF ANALYSIS

Order Type: CBD	Customer ID: 32	Harvest/Extract Lot: None
Order ID: OR2019-910	Customer Name: CBD Plus USA	Harvest/Extract Batch: None
Cultivar (Strain): GSC + CRD 5018	Lab ID: SA2019-3128	Sample Matrix: Concentrate
Sample Date: 04/02/2019	Date Received: 04/02/2019	Date Completed: 04/05/2019
	Remarks:	
	HEAVY METAL PROFILE	
Analysis Date/Time: 04/02/2019 2326	Method: ICP/MS	Deviations from SOP:
Analyst: OL	Instrument: PerkinElmer Elan 9000	None
	Result <u>Action Level</u> (1)g/kg) (1)g/kg)	

 (µg/kg)
 (µg/kg)

 Arsenic (As)
 200

 Cadmium (Cd)
 200

 Lead (Pb)
 100

 Mercury (Hg)
 500



Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, RL - Reporting Limit, AL - Action Level

Color Key



Reporting Limit (µg/kg) 50

"-" not detected above reporting limit

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CERTIFICATE OF ANALYSIS

Order Type: CBD Order ID: OR2019-910	Customer ID: Customer Nai	32 ne: CBD Plus USA	Harvest/Extract Lot: None Harvest/Extract Batch: None			
Cultivar (Strain): GSC + C Sample Date: 04/02/2019	CRD 5018 Lab ID: SA20 Date Received		Sample Matrix: Concentrate Date Completed: 04/05/2019			
	Remarks:					
MICROBIOLOGICAL PROFILE						
Analysis Date/Time: 04/02	/2019 2326 Method	Hardy Diagnostics Comp	actDry Deviations from SOP:			
Analyst: OL	Instrum	ent:	None			
Bacteria/Microbe	<u>Result</u> (CFU/g)	<u>Action Level</u> (CFU/g)				
Aerobic Plate Count, Total	NT	100				
Coliforms, Total	Absent	100				
Escherichia Coli (E. Coli)	Absent	1				

10000

10000

1

Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, NT - Not Tested

Absent

Absent

Absent

Mold

Yeast

Salmonella spp.

Color Key



Reporting Limit (CFU/g) 1

"-" not detected above reporting limit

Disclaimer: This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

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